

10/758,589

9/14/2007

Connecting via Winsock to STN

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LOGINID:SSPTAJDA1614

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 MAY 01 New CAS web site launched  
NEWS 3 MAY 08 CA/CAPLUS Indian patent publication number format defined  
NEWS 4 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields  
NEWS 5 MAY 21 BIOSIS reloaded and enhanced with archival data  
NEWS 6 MAY 21 TOXCENTER enhanced with BIOSIS reload  
NEWS 7 MAY 21 CA/CAPLUS enhanced with additional kind codes for German patents  
NEWS 8 MAY 22 CA/CAPLUS enhanced with IPC reclassification in Japanese patents  
NEWS 9 JUN 27 CA/CAPLUS enhanced with pre-1967 CAS Registry Numbers  
NEWS 10 JUN 29 STN Viewer now available  
NEWS 11 JUN 29 STN Express, Version 8.2, now available  
NEWS 12 JUL 02 LEMBASE coverage updated  
NEWS 13 JUL 02 LMEDLINE coverage updated  
NEWS 14 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 15 JUL 02 CHEMCATS accession numbers revised  
NEWS 16 JUL 02 CA/CAPLUS enhanced with utility model patents from China  
NEWS 17 JUL 16 CAPLUS enhanced with French and German abstracts  
NEWS 18 JUL 18 CA/CAPLUS patent coverage enhanced  
NEWS 19 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification  
NEWS 20 JUL 30 USGENE now available on STN  
NEWS 21 AUG 06 CAS REGISTRY enhanced with new experimental property tags  
NEWS 22 AUG 06 BEILSTEIN updated with new compounds  
NEWS 23 AUG 06 FSTA enhanced with new thesaurus edition  
NEWS 24 AUG 13 CA/CAPLUS enhanced with additional kind codes for granted patents  
NEWS 25 AUG 20 CA/CAPLUS enhanced with CAS indexing in pre-1907 records  
NEWS 26 AUG 27 Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB  
NEWS 27 AUG 27 USPATOLD now available on STN  
NEWS 28 AUG 28 CAS REGISTRY enhanced with additional experimental spectral property data  
  
NEWS 29 SEP 07 STN AnaVist, Version 2.0, now available with Derwent World Patents Index  
  
NEWS EXPRESS 05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.  
  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:40:28 ON 12 SEP 2007

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:40:40 ON 12 SEP 2007

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1

DICTIONARY FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

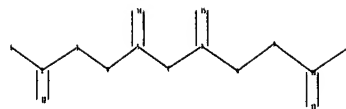
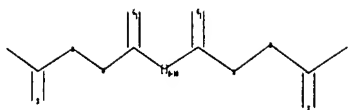
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

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Uploading C:\Program Files\Stnexp\Queries\10758589\_clm1.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

chain bonds :

1-2 2-3 2-12 3-4 4-5 5-6 5-14 6-7 7-8 7-15 8-9 9-10 10-11 10-13

exact/norm bonds :

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exact bonds :

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G1:O,S

Match level :

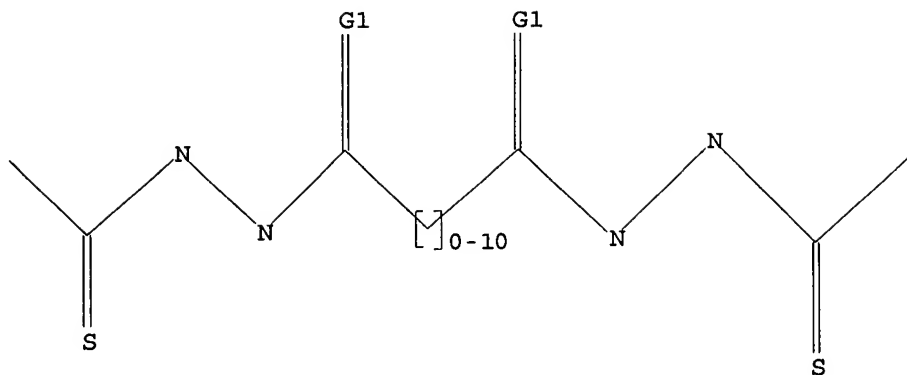
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10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 15:40:56 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 186 TO ITERATE

100.0% PROCESSED 186 ITERATIONS

17 ANSWERS

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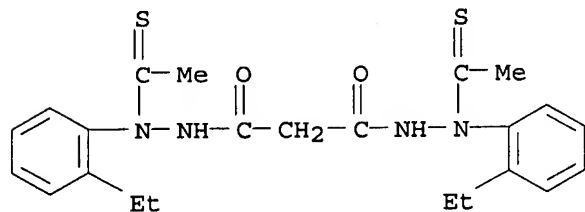
L2 17 SEA SSS FUL L1

=> d scan

L2 17 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI)

MF C23 H28 N4 O2 S2



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

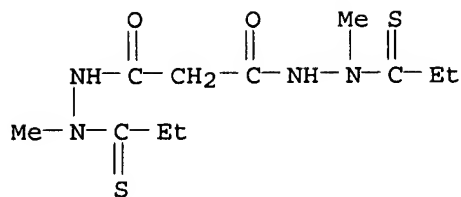
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 17 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN

IN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxopropyl)hydrazide]

MF C11 H20 N4 O2 S2

CI COM



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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COST IN U.S. DOLLARS

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ENTRY	SESSION
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FULL ESTIMATED COST

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FILE 'CAPLUS' ENTERED AT 15:41:45 ON 12 SEP 2007  
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COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIDS' ENTERED AT 15:41:45 ON 12 SEP 2007  
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FILE 'USPATFULL' ENTERED AT 15:41:45 ON 12 SEP 2007  
CA INDEXING COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 12  
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SAMPLE SCREEN SEARCH COMPLETED - 16 TO ITERATE

100.0% PROCESSED 16 ITERATIONS 2 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 41 TO 279  
PROJECTED ANSWERS: 2 TO 62

L3 24 L2

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L4 21 L3 AND (?CANCER? OR ?TUMOR?)

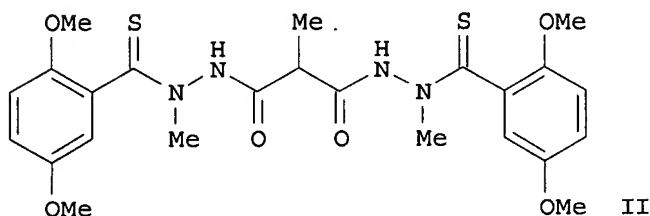
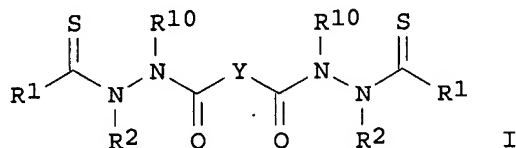
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2 FILES SEARCHED...  
L5 5 L4 AND PY<2004

=> d 15 1-5 ibib, abs, hitstr

L5 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 2003:58056 CAPLUS  
DOCUMENT NUMBER: 138:122397  
TITLE: Process for the preparation of bis(thiohydrazide)  
derivatives used as Taxol enhancers  
INVENTOR(S): Chen, Shoujun; Sun, Lijun; Xia, Zhi-Qiang; Koya,  
Keizo; Ono, Mitsunori  
PATENT ASSIGNEE(S): SBR Pharmaceuticals Corp., USA

SOURCE: PCT Int. Appl., 57 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

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AU 2006203689	A1	20060914	AU 2006-203689	20060824
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			US 2001-304318P	P 20010710
			US 2002-193076	A1 20020710
			WO 2002-US21716	W 20020710
			US 2004-807919	A1 20040324
OTHER SOURCE(S): CASREACT 138:122397; MARPAT 138:122397				
GI				



AB Disclosed is a method of preparing bis(thiohydrazide) I [R1-2 = aliphatic, aryl,

etc.; R10 = H, alkyl; Y = bond, hydrocarbyl]. The method comprises reacting a hydrazide with a thionation reagent followed by reaction of the thiohydrazide with Z-C(O)-Y-C(O)-Z or HO-C(O)-Y-C(O)-OH [Z = leaving group; Y is as defined above] and a carboxylic acid activating agent to produce I. For instance, 2,5-dimethoxybenzoic acid is coupled to methylhydrazine (CH<sub>2</sub>Cl<sub>2</sub>, DCC, DMAP); the resulting hydrazide is treated with Lawesson's reagent and the product reacted with 2-methylmalonic acid (DMF, DCC) to give II. I enhance the anti-cancer activity of taxol and analogs thereof.

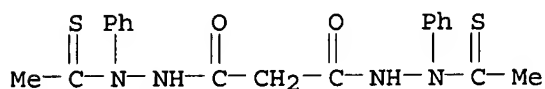
IT 488831-49-8P 488831-53-4P 488831-54-5P  
488831-55-6P 488831-56-7P 488831-57-8P  
488831-58-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(process for preparation of bis(thiohydrazide) derivs. used as Taxol enhancers)

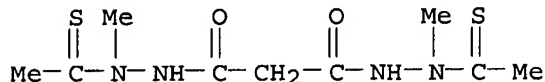
RN 488831-49-8 CAPLUS

CN Propanedioic acid, 1,3-bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



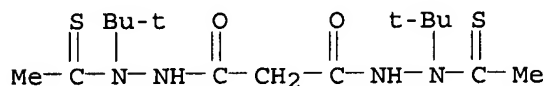
RN 488831-53-4 CAPLUS

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



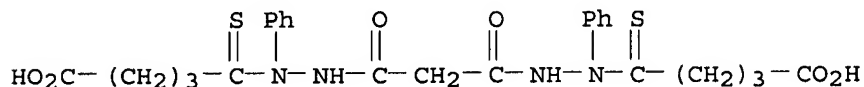
RN 488831-54-5 CAPLUS

CN Propanedioic acid, 1,3-bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



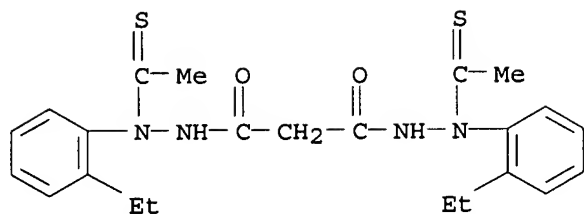
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CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



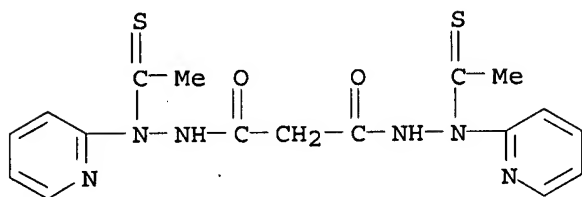
RN 488831-56-7 CAPLUS

CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



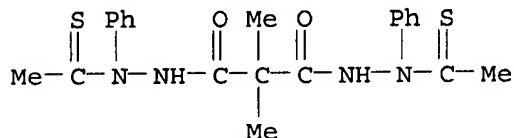
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CN Propanedioic acid, bis[2-(2-phenyl)-2-(1-thioxoethyl)hydrazide] (9CI)  
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RN 488831-58-9 CAPLUS

CN Propanedioic acid, dimethyl-, bis[2-phenyl-2-(1-thioxoethyl)hydrazide]  
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:58055 CAPLUS

DOCUMENT NUMBER: 138:122396

TITLE: Preparation of bis(thiohydrazide) derivatives as Taxol enhancer compounds

INVENTOR(S): Koya, Keizo; Sun, Lijun; Chen, Shoujun; Tatsuta, Noriaki; Wu, Yaming; Ono, Mitsunori; Xia, Zhi-Qiang

PATENT ASSIGNEE(S): SBR Pharmaceuticals Corp., USA

SOURCE: PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003006428	A1	20030123	WO 2002-US21714	20020710 <--
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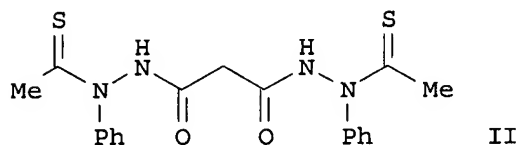
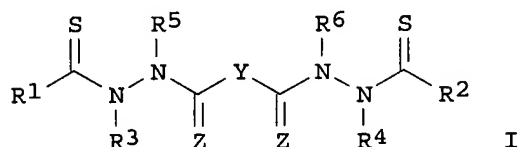
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US 2001-304252P	P	20010710
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US 2002-361946P	P	20020306
EP 2002-746947	A3	20020710
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WO 2002-US21714	W	20020710
US 2004-803798	A1	20040318
US 2004-846152	A1	20040514

OTHER SOURCE(S): MARPAT 138:122396  
GI



AB Title compds. I [Y = bond, phenylene, hydrocarbyl or taken together with both >C=Z groups is aromatic; R1-2 = (un)substituted aryl; R3-4 = H, alkyl, aryl; R5-6 = H, alkyl, aryl; Z = O, with provisions] and analogs are prepared For instance, phenylhydrazine was reacted with Et malonate (xylene, reflux) and the resulting bis(hydrazide), acetylated (Ac2O, HClO4) and treated with HCl/acetone/Na2S to afford II. The combination of example compds. and paclitaxel administered to mice with tumors (MDA-435) results in greater tumor reduction than either active component given alone.

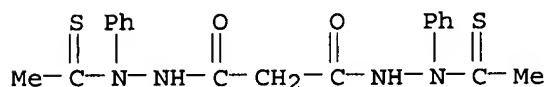
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU  
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES  
(Uses)

(preparation of bis(thiohydrazide) derivs. as Taxol enhancer compds. for the  
treatment of cancer)

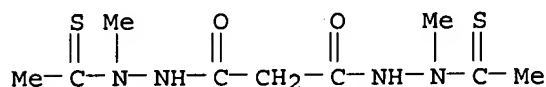
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CN Propanedioic acid, 1,3-bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (CA INDEX  
NAME)



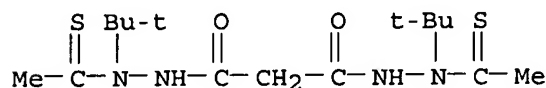
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NAME)



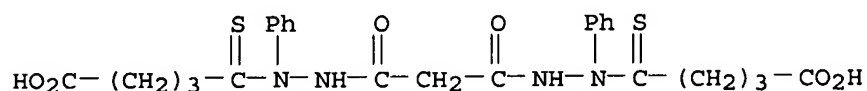
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thioxoethyl)hydrazide] (CA INDEX NAME)



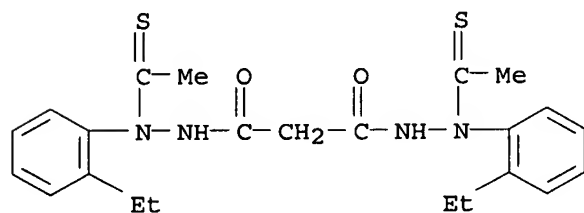
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CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide]  
(9CI) (CA INDEX NAME)



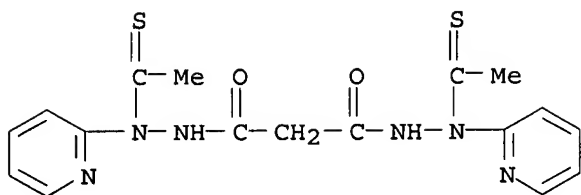
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CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI)  
(CA INDEX NAME)



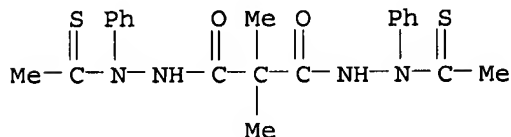
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CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI)  
(CA INDEX NAME)



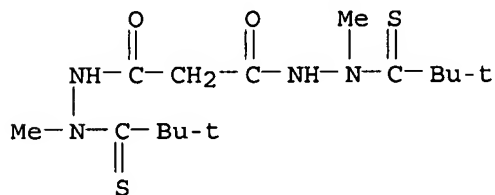
RN 488831-58-9 CAPLUS

CN Propanedioic acid, dimethyl-, bis[2-phenyl-2-(1-thioxoethyl)hydrazide]  
(9CI) (CA INDEX NAME)



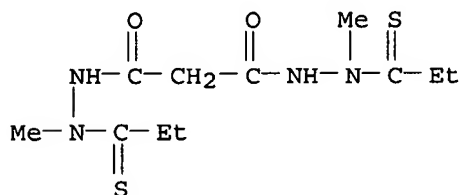
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CN Propanedioic acid, 1,3-bis[2-(2,2-dimethyl-1-thioxopropyl)-2-methylhydrazide] (CA INDEX NAME)



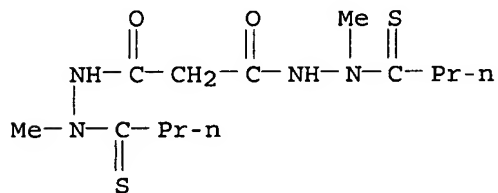
RN 488831-61-4 CAPLUS

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxopropyl)hydrazide] (CA INDEX NAME)



RN 488831-65-8 CAPLUS

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxobutyl)hydrazide] (CA INDEX NAME)



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2003:174066 USPATFULL  
TITLE: Taxol enhancer compounds  
INVENTOR(S): Koya, Keizo, Brookline, MA, UNITED STATES  
Sun, Lijun, Harvard, MA, UNITED STATES  
Chen, Shoujun, Billerica, MA, UNITED STATES  
Tatsuta, Noriaki, Lexington, MA, UNITED STATES  
Wu, Yaming, Lexington, MA, UNITED STATES  
Ono, Mitsunori, Lexington, MA, UNITED STATES  
PATENT ASSIGNEE(S): Shionogi BioResearch Corp., Lexington, MA (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003119914	A1	20030626	<--
	US 6800660	B2	20041005	
APPLICATION INFO.:	US 2002-193075	A1	20020710	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-304252P	20010710 (60)
	US 2002-361946P	20020306 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133	
NUMBER OF CLAIMS:	117	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Page(s)	
LINE COUNT:	2227	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a compound represented by the Structural Formula (I):  
##STR1##

Y is a covalent bond, a phenylene group or a substituted or unsubstituted straight chained hydrocarbonyl group. In addition, Y, taken together with both >C.dbd.Z groups to which it is bonded, is a substituted or unsubstituted aromatic group. Preferably, Y is a covalent bond or --C(R.sub.7R.sub.8)--.

R.sub.1 and R.sub.2 are independently an aryl group or a substituted aryl group, R.sub.3 and R.sub.4 are independently --H, an aliphatic group, a substituted aliphatic group, an aryl group or a substituted aryl group.

R.sub.5-R.sub.6 are independently --H, an aliphatic group, a substituted aliphatic group, an aryl group or a substituted aryl group.

R.sub.7 and R.sub.8 are each independently --H, an aliphatic or substituted aliphatic group, or R.sub.7 is --H and R.sub.8 is a substituted or unsubstituted aryl group, or, R.sub.7 and R.sub.8, taken together, are a C2-C6 substituted or unsubstituted alkylene group.

Z is .dbd.O or .dbd.S.

Also disclosed are pharmaceutical compositions comprising the compound of the present invention and a pharmaceutically acceptable carrier or diluent. Also disclosed is a method of treating a subject with cancer by administering to the subject a compound of Structural Formula (I) in combination with taxol or an analog of taxol.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 488831-49-8P 488831-53-4P 488831-54-5P  
488831-55-6P 488831-56-7P 488831-57-8P

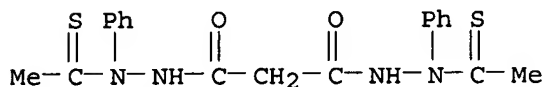
488831-58-9P 488831-60-3P 488831-61-4P

488831-65-8P

(preparation of bis(thiohydrazide) derivs. as Taxol enhancer compds. for the treatment of cancer)

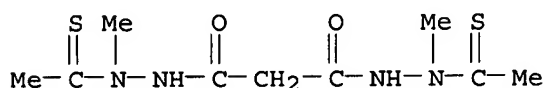
RN 488831-49-8 USPATFULL

CN Propanedioic acid, 1,3-bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



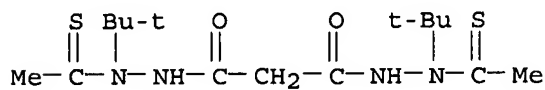
RN 488831-53-4 USPATFULL

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



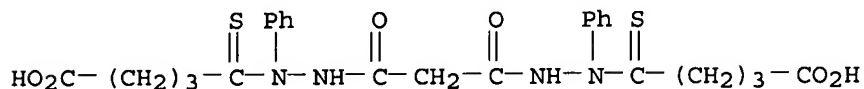
RN 488831-54-5 USPATFULL

CN Propanedioic acid, 1,3-bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



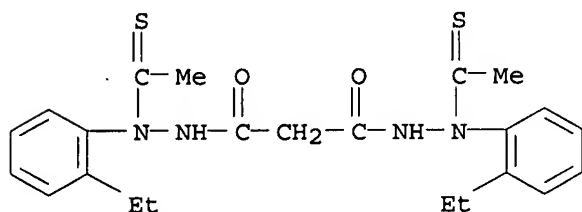
RN 488831-55-6 USPATFULL

CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



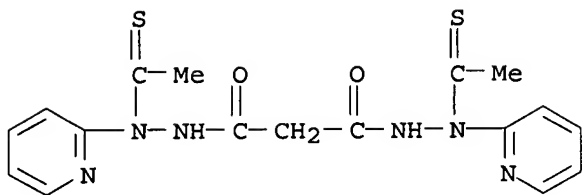
RN 488831-56-7 USPATFULL

CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



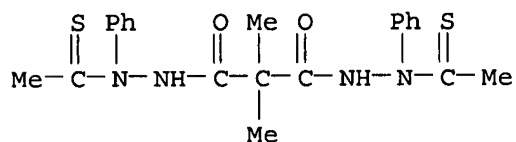
RN 488831-57-8 USPATFULL

CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



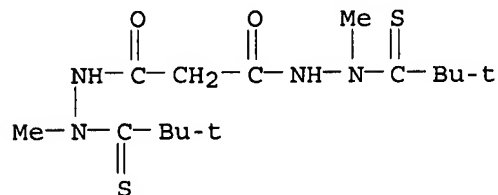
RN 488831-58-9 USPATFULL

CN Propanedioic acid, dimethyl-, bis[2-phenyl-2-(1-thioxoethyl)hydrazide]  
(9CI) (CA INDEX NAME)



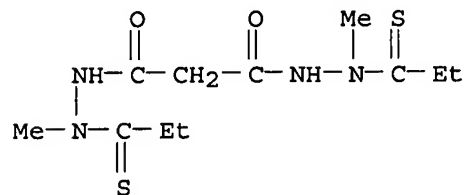
RN 488831-60-3 USPATFULL

CN Propanedioic acid, 1,3-bis[2-(2,2-dimethyl-1-thioxopropyl)-2-methylhydrazide] (CA INDEX NAME)



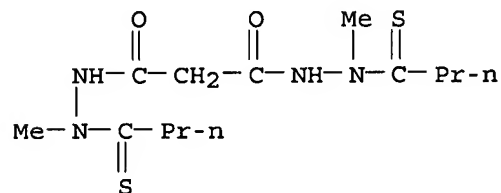
RN 488831-61-4 USPATFULL

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxopropyl)hydrazide] (CA INDEX NAME)



RN 488831-65-8 USPATFULL

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxobutyl)hydrazide] (CA INDEX NAME)



L5 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2003:100114 USPATFULL  
TITLE: Synthesis of taxol enhancers  
INVENTOR(S): Chen, Shoujun, Billerica, MA, UNITED STATES  
Sun, Lijun, Harvard, MA, UNITED STATES  
Xia, Zhi-Qiang, Dedham, MA, UNITED STATES  
Koya, Keizo, Brookline, MA, UNITED STATES  
Ono, Mitsunori, Lexington, MA, UNITED STATES  
PATENT ASSIGNEE(S): Shionogi BioResearch Corp., Lexington, MA (U.S.  
corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003069225	A1	20030410	<--
	US 6825235	B2	20041130	
APPLICATION INFO.:	US 2002-193076	A1	20020710	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-304318P	20010710 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133	
NUMBER OF CLAIMS:	60	
EXEMPLARY CLAIM:	1	
LINE COUNT:	1181	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a method of preparing a thiohydrazide product compound from a hydrazide starting compound. The hydrazide starting compound is represented by Structural Formula (I): ##STR1##

The thiohydrazide product compound is represented by Structural Formula (II): ##STR2##

In Structural Formulas (I)-(II), R.sub.1 and R.sub.2 are independently an aliphatic group, a substituted aliphatic group, an aryl group or a substituted aryl group, or R.sub.1 and R.sub.2 taken together with the carbon and nitrogen atoms to which they are bonded, form a non-aromatic heterocyclic ring optionally fused to an aromatic ring. When R.sub.2 is an aryl group or a substituted aryl group, then R.sub.5 is a hydrazine protecting group; and when R.sub.2 is an aliphatic or substituted aliphatic group, then R.sub.5 is --H or a hydrazine protecting group. R.sub.10 is --H or a substituted or unsubstituted alkyl group. The method comprising the step of reacting the starting compound with a thionylating reagent.

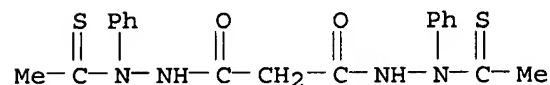
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 488831-49-8P 488831-53-4P 488831-54-5P  
488831-55-6P 488831-56-7P 488831-57-8P  
488831-58-9P

(process for preparation of bis(thiohydrazide) derivs. used as Taxol enhancers)

RN 488831-49-8 USPATFULL

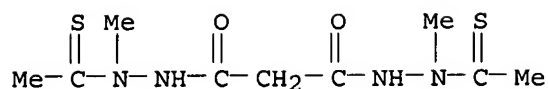
CN Propanedioic acid, 1,3-bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



RN 488831-53-4 USPATFULL

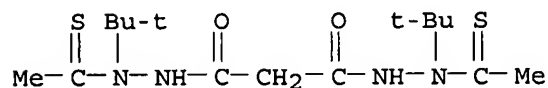
CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)

NAME)



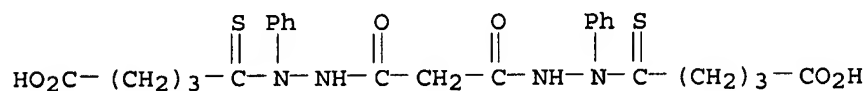
RN 488831-54-5 USPATFULL

CN Propanedioic acid, 1,3-bis[2-(1,1-dimethylethyl)-2-(1-thioethyl)hydrazide] (CA INDEX NAME)



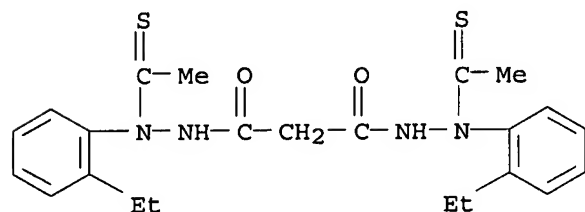
RN 488831-55-6 USPATFULL

CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



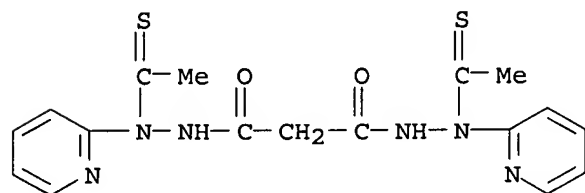
RN 488831-56-7 USPATFULL

CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488831-57-8 USPATFULL

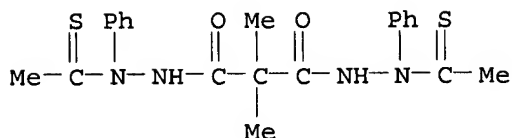
CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioethyl)hydrazide] (9CI) (CA INDEX NAME)



RN 488831-58-9 USPATFULL

CN Propanedioic acid, dimethyl-, bis[2-phenyl-2-(1-thioethyl)hydrazide] (9CI) (CA INDEX NAME)





L5 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2003:65394 USPATFULL

TITLE: Taxol enhancer compounds

INVENTOR(S): Koya, Keizo, Brookline, MA, UNITED STATES  
 Sun, Lijun, Harvard, MA, UNITED STATES  
 Chen, Shoujun, Billerica, MA, UNITED STATES  
 Tatsuta, Noriaki, Lexington, MA, UNITED STATES  
 Wu, Yaming, Lexington, MA, UNITED STATES  
 Ono, Mitsunori, Lexington, MA, UNITED STATES  
 Xia, Zhi-Qiang, Dedham, MA, UNITED STATES

PATENT ASSIGNEE(S): Shionogi BioResearch Corp., Lexington, MA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003045518	A1	20030306	<--
	US 6762204	B2	20040713	
APPLICATION INFO.:	US 2002-193639	A1	20020710	(10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-304252P	20010710 (60)
	US 2002-361936P	20020306 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HAMILTON, BROOK, SMITH & REYNOLDS, P.C., 530 VIRGINIA ROAD, P.O. BOX 9133, CONCORD, MA, 01742-9133	
NUMBER OF CLAIMS:	125	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	26 Drawing Page(s)	
LINE COUNT:	2092	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB One embodiment of the present invention is a compound represented by the Structural Formula (I): ##STR1##

Y is a covalent bond of a substituted or unsubstituted straight chained hydrocarbyl group. In addition, Y, taken together with both >C=Z groups to which it is bonded, is a substituted or unsubstituted aromatic group. Preferably, Y is a covalent bond or --C(R.sub.7R.sub.8)--.

R.sub.1 is an aliphatic group, a substituted aliphatic group, a non-aromatic heterocyclic group, or a substituted non-aromatic heterocyclic group, R.sub.2-R.sub.4 are independently --H, an aliphatic group, a substituted aliphatic group, a non-aromatic heterocyclic group, a substituted non-aromatic heterocyclic group, an aryl group or a substituted aryl group, or R.sub.1 and R.sub.3 taken together with the carbon and nitrogen atoms to which they are bonded, and/or R.sub.2 and R.sub.4 taken together with the carbon and nitrogen atoms to which they are bonded, form a non-aromatic heterocyclic ring optionally fused to an aromatic ring.

R.sub.5-R.sub.6 are independently --H, an aliphatic group, a substituted aliphatic group, an aryl group or a substituted aryl group.

R.sub.7 and R.sub.8 are each independently --H, an aliphatic or substituted aliphatic group, or R.sub.7 is --H and R.sub.8 is a

substituted or unsubstituted aryl group, or, R.sub.7 and R.sub.8, taken together, are a C2-C6 substituted or unsubstituted alkylene group.

Z is .dbd.O or .dbd.S.

Also disclosed are pharmaceutical compositions comprising the compound of the present invention and a pharmaceutically acceptable carrier or diluent.

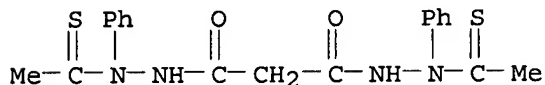
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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488831-58-9P 488831-60-3P 488831-61-4P  
488831-65-8P

(preparation of bis(thiohydrazide) derivs. as Taxol enhancer compds. for the treatment of cancer)

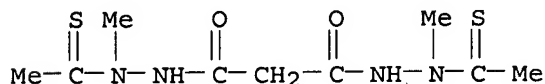
RN 488831-49-8 USPATFULL

CN Propanedioic acid, 1,3-bis[2-phenyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



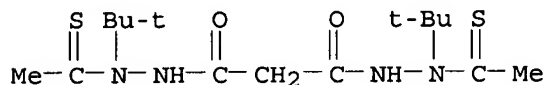
RN 488831-53-4 USPATFULL

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



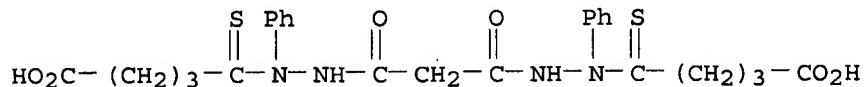
RN 488831-54-5 USPATFULL

CN Propanedioic acid, 1,3-bis[2-(1,1-dimethylethyl)-2-(1-thioxoethyl)hydrazide] (CA INDEX NAME)



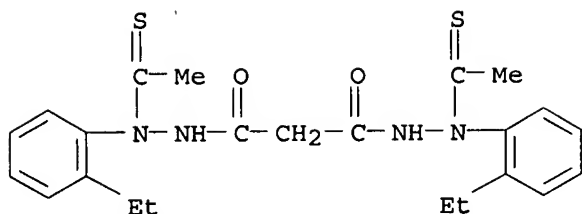
RN 488831-55-6 USPATFULL

CN Propanedioic acid, bis[2-(4-carboxy-1-thioxobutyl)-2-phenylhydrazide] (9CI) (CA INDEX NAME)



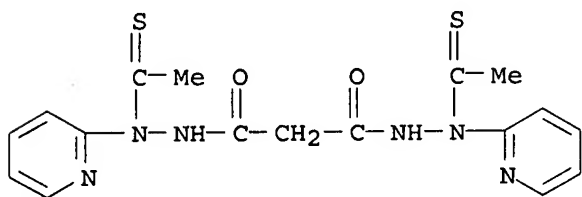
RN 488831-56-7 USPATFULL

CN Propanedioic acid, bis[2-(2-ethylphenyl)-2-(1-thioxoethyl)hydrazide] (9CI) (CA INDEX NAME)



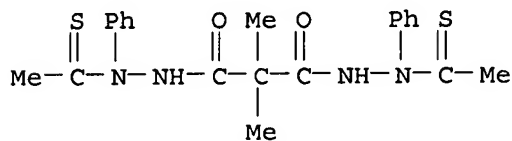
RN 488831-57-8 USPATFULL

CN Propanedioic acid, bis[2-(2-pyridinyl)-2-(1-thioxoethyl)hydrazide] (9CI)  
(CA INDEX NAME)



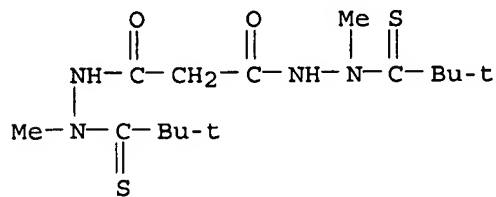
RN 488831-58-9 USPATFULL

CN Propanedioic acid, dimethyl-, bis[2-phenyl-2-(1-thioxoethyl)hydrazide]  
(9CI) (CA INDEX NAME)



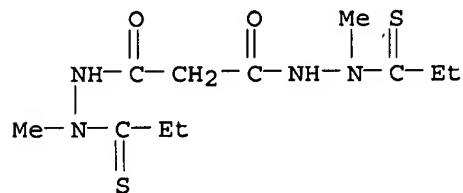
RN 488831-60-3 USPATFULL

CN Propanedioic acid, 1,3-bis[2-(2,2-dimethyl-1-thioxopropyl)-2-methylhydrazide] (CA INDEX NAME)

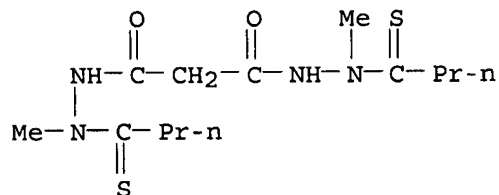


RN 488831-61-4 USPATFULL

CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxopropyl)hydrazide] (CA INDEX NAME)



RN 488831-65-8 USPATFULL  
CN Propanedioic acid, 1,3-bis[2-methyl-2-(1-thioxobutyl)hydrazide] (CA INDEX NAME)



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COST IN U.S. DOLLARS  
FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

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STRUCTURE FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1  
DICTIONARY FILE UPDATES: 11 SEP 2007 HIGHEST RN 946658-01-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

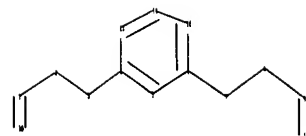
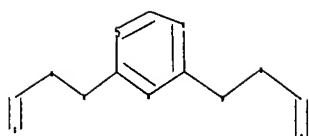
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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<http://www.cas.org/support/stngen/stndoc/properties.html>

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ring nodes :
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chain bonds :
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ring bonds :
4-5  4-13 5-6  6-16 13-14 14-16
exact/norm bonds :
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G2:CH,N

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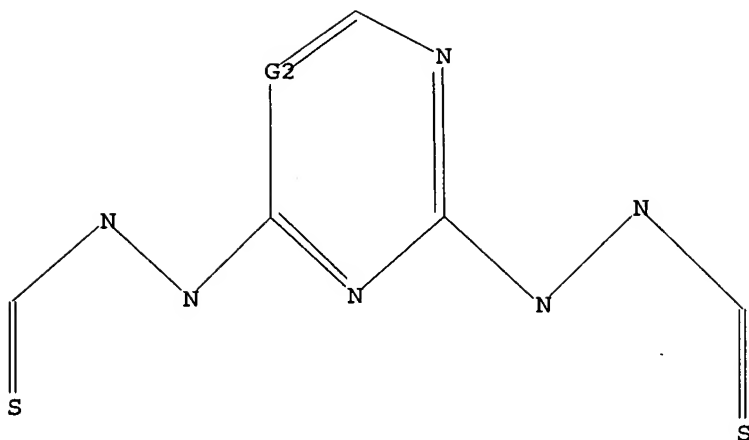
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L6        STRUCTURE UPLOADED

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L6 HAS NO ANSWERS
L6                STR

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G2 CH,N

Structure attributes must be viewed using STN Express query preparation.

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100.0% PROCESSED 16 ITERATIONS 7 ANSWERS  
SEARCH TIME: 00.00.01

L7 7 SEA SSS FUL L6

=> file medline caplus wpids uspatfull  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE ENTRY	TOTAL SESSION
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FILE 'CAPLUS' ENTERED AT 15:48:24 ON 12 SEP 2007  
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FILE 'USPATFULL' ENTERED AT 15:48:24 ON 12 SEP 2007  
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=> s 17  
SAMPLE SEARCH INITIATED 15:48:29 FILE 'WPIDS'  
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH    \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS:    0 TO    0  
 PROJECTED ANSWERS:        0 TO    0

L8                    2 L7

=> d l8 1-2 ibib, abs, hitstr

L8    ANSWER 1 OF 2    CAPLUS    COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER:        2004:94240    CAPLUS

DOCUMENT NUMBER:        140:248689

TITLE:                    Synthesis, chemical structure and photochemical and  
                              growth-regulating activity of some new  
                              2,4-bis(alkyl/aryl-thiosemicarbazido)pyrimidines

AUTHOR(S):                Vassilev, G. N.

CORPORATE SOURCE:        Institute of Organic Chemistry, Bulgarian Academy of  
                              Sciences, Sofia, 1113, Bulg.

SOURCE:                  Oxidation Communications (2003), 26(4), 614-618

CODEN: OXCODW; ISSN: 0209-4541

PUBLISHER:                SciBulCom Ltd.

DOCUMENT TYPE:           Journal

LANGUAGE:                English

OTHER SOURCE(S):        CASREACT 140:248689

AB    Some new 2,4-bis(alkyl/aryl-thiosemicarbazido)pyrimidines were synthesized  
       and the interrelation between the chemical structure, photochem. activity and  
       plant-growth-regulating activity of the substances was investigated. For  
       wheat root growth, all compds. showed inhibitory activity at 10<sup>-3</sup> and 10<sup>-4</sup>  
       M and stimulating activity at 10<sup>-5</sup> and 10<sup>-6</sup> M. For cucumber, the compds.,  
       were stimulatory at all concns. The photochem. activity on pea  
       chloroplast Hill reaction was in agreement with the data on wheat  
       growth-regulating activity.

IT    77112-81-3P 77112-82-4P 77112-83-5P

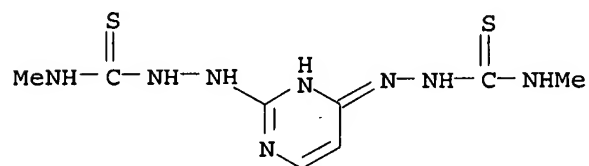
77112-84-6P 77112-85-7P 77112-86-8P

RL: AGR (Agricultural use); BUU (Biological use, unclassified); SPN  
       (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES  
       (Uses)

      (preparation, plant-growth-regulating and Hill-reaction-inhibiting activity  
       of)

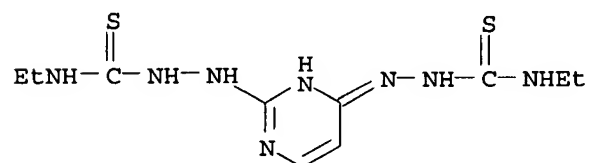
RN    77112-81-3    CAPLUS

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       INDEX NAME)



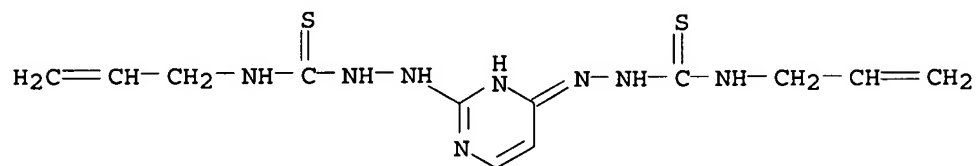
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       INDEX NAME)



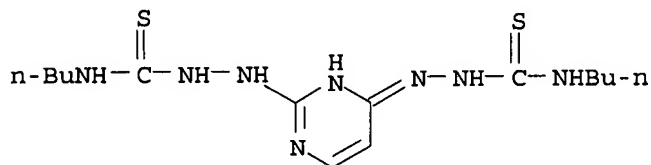
RN    77112-83-5    CAPLUS

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(CA INDEX NAME)



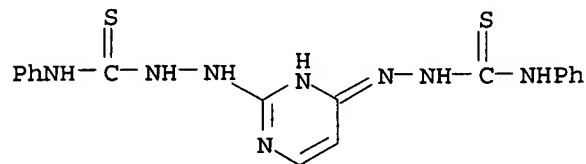
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CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-butyl- (9CI) (CA  
INDEX NAME)



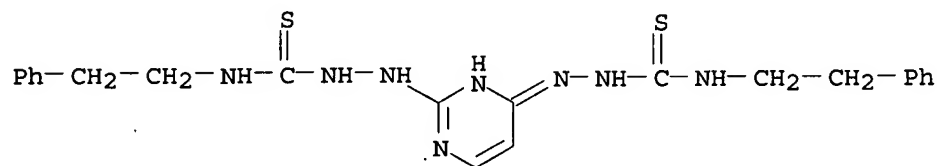
RN 77112-85-7 CAPLUS

CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-phenyl- (9CI) (CA  
INDEX NAME)



RN 77112-86-8 CAPLUS

CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-(2-phenylethyl)-  
(9CI) (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1981:139740 CAPLUS

DOCUMENT NUMBER: 94:139740

TITLE: Synthesis of 2-thiosemicarbazidopyrimidines and  
2,4-uracil-bis(thiosemicarbazides)

AUTHOR(S): Vasilev, G.; Spasovska, N.; Spasov, A.

CORPORATE SOURCE: Inst. Plant Physiol., Sofia, 1113, Bulg.

SOURCE: Doklady Bolgarskoi Akademii Nauk (1980), 33(6), 849-51  
CODEN: DBANAD; ISSN: 0366-8681

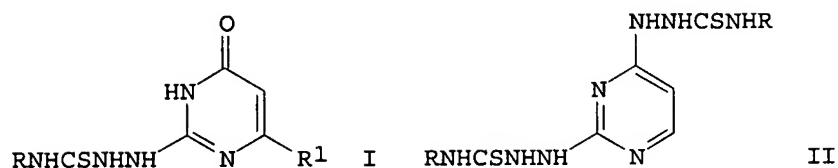
DOCUMENT TYPE: Journal

LANGUAGE: English



OTHER SOURCE(S) :  
GI

CASREACT 94:139740

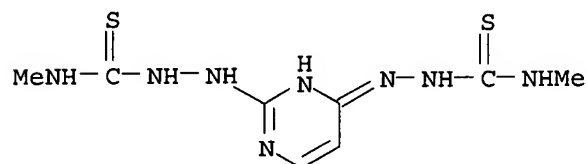


AB Thiosemicarbazides I and II (R = Me, Et, allyl, Bu, Ph, CH<sub>2</sub>CH<sub>2</sub>Ph; R<sub>1</sub> = H, Me) were obtained quant. by treating the hydrazines with RNCS. I and II stimulate or inhibit plant growth, depending on concentration. They also affect the Hill reaction (no data).

IT 77112-81-3P 77112-82-4P 77112-83-5P  
77112-84-6P 77112-85-7P 77112-86-8P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

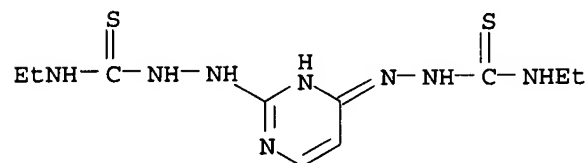
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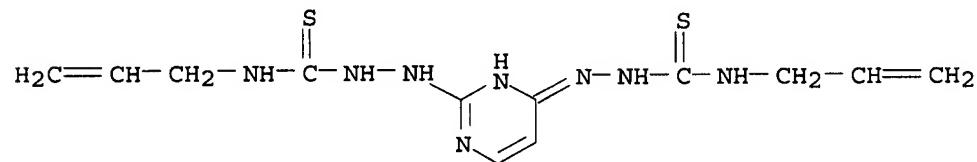
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CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-ethyl- (9CI) (CA INDEX NAME)



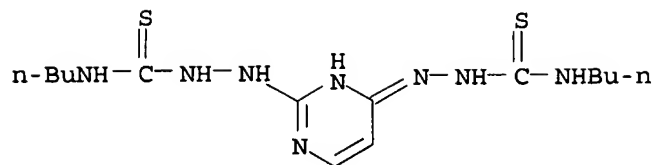
RN 77112-83-5 CAPLUS

CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-2-propenyl- (9CI) (CA INDEX NAME)

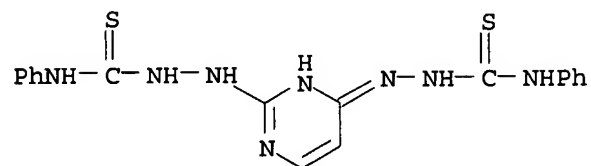


RN 77112-84-6 CAPLUS

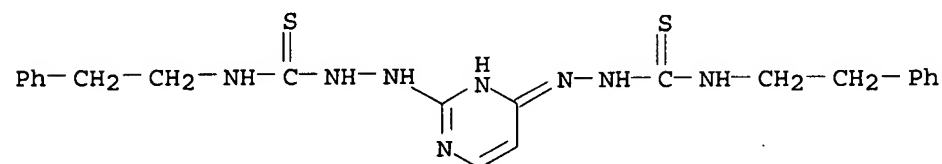
CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-butyl- (9CI) (CA INDEX NAME)



RN 77112-85-7 CAPLUS  
 CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-phenyl- (9CI) (CA INDEX NAME)



RN 77112-86-8 CAPLUS  
 CN Hydrazinecarbothioamide, 2,2'-(2,4-pyrimidinediyl)bis[N-(2-phenylethyl)- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 15:40:28 ON 12 SEP 2007)

FILE 'REGISTRY' ENTERED AT 15:40:40 ON 12 SEP 2007

L1 STRUCTURE UPLOADED

L2 17 S L1 FULL

FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 15:41:45 ON 12 SEP 2007

L3 24 S L2

L4 21 S L3 AND (?CANCER? OR ?TUMOR?)

L5 5 S L4 AND PY<2004

FILE 'REGISTRY' ENTERED AT 15:47:57 ON 12 SEP 2007

L6 STRUCTURE UPLOADED

L7 7 S L6 FULL

FILE 'MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 15:48:24 ON 12 SEP 2007

L8 2 S L7

=>

---Logging off of STN---

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Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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FULL ESTIMATED COST	18.18	413.88
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.56	-3.12

STN INTERNATIONAL LOGOFF AT 15:51:58 ON 12 SEP 2007